

IN THE CLAIMS

Please replace pending claims 1 and 13 with amended claims 1 and 13 as follows:

Sub 13. (Once Amended) An ink jet printing apparatus including an ink supply device containing ink, comprising:

a printhead structure having multiple printing modes; and
a sufficient number of ink drop generators fluidically coupled to the ink supply device and formed in the printhead structure and arranged along at least three axes that are substantially parallel and spaced apart from each other to provide printing resolution of at least 600 dots per inch with each printing mode.

13. (Once Amended) A high-performance ink jet printhead, comprising:

a printhead structure having a one-pass print mode producing approximately 600 dots per inch at a first speed and 1200 dots per inch at a second speed higher than the first speed and a two-pass print mode producing approximately 600 dots per inch;

a high-density array of ink drop generators disposed on the printhead structure, the array comprising:

a first plurality of ink drop generators arranged along a first axis to form a first axis group;

a second plurality of ink drop generators arranged along a second axis to form a second axis group and staggered with respect to the first axis group;

a third plurality of ink drop generators arranged along a third axis to form a third axis group and staggered with respect to the first and second axis groups; and

wherein the first, second and third axes are generally parallel to a reference axis and spaced transversely apart from one another.